

RESEARCH PROJECTS UNDER CONSIDERATION 2001 UTRAC WORKSHOP

Group 1 - Construction & Maintenance

- 01-1.1 Location and prioritization of RWIS Environmental Stations
- 01-1.2 Develop Pavement Marking Failure curve
- 01-1.3 Bridge Joint Closure and Replacement Materials
- 01-1.4 Sign Inventory Format
- 01-1.5 Concrete Deck Crack Sealing
- 01-1.6 Sign Posts - Material Type Cost & Construction Methods

Group 2 - Materials & Pavement

- 01-2.1 Feasibility of Adopting a Permeability Specification for Pavements
- 01-2.2 Extending the Season for Concrete Construction / Repair
- 01-2.3 Evaluate Options for Longer Design Life of PCCP
- 01-2.4 Compare Benefits of Textured Concrete Pavement vs. Tined
- 01-2.5 Evaluate Continuous Pavement Deflection Testing

Group 3 - Hydraulics, Planning, Environmental, Landscape & Roadway

- 01-3.1 Develop a Utah Wetland Assessment Method
- 01-3.2 Assess Planned Corridor Affect on Property
- 01-3.3 Economic Benefits of Median Treatments
- 01-3.4 Air quality Hot Spot Procedures
- 01-3.5 Improve Accuracy of Design Discharge Calculations
- 01-3.6 Evaluate Effectiveness of Oil/Water Separators

Group 4 - ITS, Traffic & Safety

- 01-4.1 Adaptive signal Control – Phase II
- 01-4.2 Accident Records Internet Applications
- 01-4.3 Develop Policy on Rumble Strips In Medians of Undivided Highways
- 01-4.4 Develop Automatic Measures of Effectiveness (MOEs) for ATMS
- 01-4.5 Evaluate Effectiveness of High Occupancy Vehicle Lanes
- 01-4.6 Develop Methodology to Manage / Enhance ATMS Software

Group 5 - Geotechnical & Structures

- 01-5.1 Lateral Cyclic Testing of Pile Caps with Vibration testing
- 01-5.2 Design of Strong Ground Motion Instrument Array for Legacy Parkway
- 01-5.3 Investigate Bridge Deck Slab Cracking of New I-15 Bridges
- 01-5.4 Develop Bridge Deck Replace/Rehab Methodology
- 01-5.5 Down Hole Strong Ground Motion Array for I-15/I-80
- 01-5.6 Develop Optimal Design Procedure for the Design of Bridge Decks

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